	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	139854	((motion or moving or tracking) with (image or images or object or target))	USPAT	2004/04/04 19:26
2	BRS	L2	9328	1 and encoding	USPAT	2004/04/04 19:26
3	BRS	L3	3301	2 and ((image or images) with (quality or evaluation))	USPAT	2004/04/04 19:30
4	BRS	L4	1256	3 and (network or web or internet)	USPAT	2004/04/04 19:28
5	BRS	L5	594	4 and mpeg$	USPAT	2004/04/04 19:28
6	BRS	L6	508	5 and display	USPAT	2004/04/04 19:29
7	BRS	L7	459	6 and (decoding or decoder)	USPAT	2004/04/04 19:30
8	BRS	L8	6	7 and (quality with evaluation)	USPAT	2004/04/04 19:31
9	BRS	L9	162	7 and evaluat$	USPAT	2004/04/04 19:31

	Comments	Error Definition	Errors
1			0
2			0
3	)		0
4			0
5			0
6			0
7			0
8			0
9			0

	U	1	Document ID	Issue Date	Pages
1	☐	☐	US 6714683 B1	20040330	12
2	☒	☐	US 6711211 B1	20040323	22
3	☒	☐	US 6711209 B1	20040323	15
4	☒	☐	US 6707852 B1	20040316	25
5	☒	☐	US 6700990 B1	20040302	92
6	☒	☐	US 6700933 B1	20040302	34
7	☒	☐	US 6697076 B1	20040224	142
8	☒	☐	US 6693643 B1	20040217	141
9	☒	☐	US 6687296 B1	20040203	27
10	☒	☐	US 6675146 B2	20040106	61
11	☒	☐	US 6674911 B1	20040106	41
12	☒	☐	US 6661422 B1	20031209	137

	Title	Current OR	Current XRef	Retrieval Classif
1	Wavelet based feature modulation watermarks and related applications	382/240	382/100; 713/176	
2	Method for encoding and decoding video information, a motion compensated video encoder and a corresponding decoder	375/240.24		
3	Adaptive motion vector field coding	375/240	348/699; 375/240.12; 375/240.15; 375/240.16; 375/240.24; 382/232; 382/236; 382/238	
4	Digital video signal encoder and encoding method	375/240.12	348/700	
5	Digital watermark decoding method	382/100		
6	System and method with advance predicted bit-plane coding for progressive fine-granularity scalable (PFGS) video coding	375/240.16	375/240.03; 375/240.25; 375/240.27	
7	Method and apparatus for address re-mapping	345/568	345/531; 345/559; 711/202; 711/203; 711/206; 711/208	
8	Method and apparatus for color space conversion	345/602	345/604	
9	Apparatus and method for transforming picture information	375/240.12		
10	Audio steganography	704/270	380/252	
11	N-dimensional data compression using set partitioning in hierarchical trees	382/240	375/240.19	
12	Video and graphics system with MPEG specific data transfer commands	345/530	345/531; 345/534; 345/547; 345/555; 345/574; 348/461; 348/474; 370/468	

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
1	Tian, Jun et al.	☒	☐	☐	☐	☐	☐	☐	US 6714683	☐
2	Lainema, Jani	☐	☐	☐	☐	☐	☐	☐	US 6711211	☐
3	Lainema, Jani et al.	☐	☐	☐	☐	☐	☐	☐	US 6711209	☐
4	Wang, Albert S.	☐	☐	☐	☐	☐	☐	☐	US 6707852	☐
5	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 6700990	☐
6	Wu, Feng et al.	☐	☐	☐	☐	☐	☐	☐	US 6700933	☐
7	Trivedi, Sushma Shrikant et al.	☐	☐	☐	☐	☐	☐	☐	US 6697076	☐
8	Trivedi, Sushma Shrikant et al.	☐	☐	☐	☐	☐	☐	☐	US 6693643	☐
9	Sato, Kazushi et al.	☐	☐	☐	☐	☐	☐	☐	US 6687296	☐
10	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 6675146	☐
11	Pearlman, William A. et al.	☐	☐	☐	☐	☐	☐	☐	US 6674911	☐
12	Valmiki, Ramanujan K. et al.	☐	☐	☐	☐	☐	☐	☐	US 6661422	☐

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13	☒	☐	US 6654480 B2	20031125	59
14	☒	☐	US 6640145 B2	20031028	129
15	☒	☐	US 6636635 B2	20031021	94
16	☒	☐	US 6636222 B1	20031021	137
17	☒	☐	US 6618117 B2	20030909	290
18	☒	☐	US 6614936 B1	20030902	18
19	☒	☐	US 6614847 B1	20030902	24
20	☒	☐	US 6611628 B1	20030826	24
21	☒	☐	US 6593925 B1	20030715	27
22	☒	☐	US 6590998 B2	20030708	58
23	☒	☐	US 6590997 B2	20030708	56

	Title	Current OR	Current XRef	Retrieval Classif
13	Audio appliance and monitoring device responsive to watermark data	382/100	380/252	
14	Media recording device with packet data interface	700/83	700/17; 700/19; 700/23; 704/200; 704/201; 704/7; 709/200; 709/201; 709/202	
15	Object extraction method, and image sensing apparatus using the method	382/218	382/312	
16	Video and graphics system with an MPEG video decoder for concurrent multi-row decoding	345/505	348/461; 348/571; 348/705; 348/715; 348/721; 375/240.13; 375/240.25; 382/235; 502/506	
17	Image sensing apparatus including a microcontroller	355/18	348/207.99	
18	System and method for robust video coding using progressive fine-granularity scalable (PFGS) coding	382/238	375/240.1; 375/240.14; 382/240	
19	Content-based video compression	375/240.16	375/240.15; 375/240.23; 375/240.27; 714/756; 714/822; 714/824	
20	Method of image feature coding and method of image search	382/243		
21	Parameterized animation compression methods and arrangements	345/426		
22	Network linking method using information embedded in data objects that have inherent noise	382/100	709/217	
23	Files and methods employing common information in both header and steganographic embedding	382/100	380/252	

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
13	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 6654480	☐
14	Hoffberg, Steven et al.	☐	☐	☐	☐	☐	☐	☐	US 6640145	☐
15	Matsugu, Masakazu	☐	☐	☐	☐	☐	☐	☐	US 6636635	☐
16	Valmiki, Ramanujan K. et al.	☐	☐	☐	☐	☐	☐	☐	US 6636222	☐
17	Silverbrook, Kia	☐	☐	☐	☐	☐	☐	☐	US 6618117	☐
18	Wu, Feng et al.	☐	☐	☐	☐	☐	☐	☐	US 6614936	☐
19	Das, Arnab et al.	☐	☐	☐	☐	☐	☐	☐	US 6614847	☐
20	Sekiguchi, Shunichi et al.	☐	☐	☐	☐	☐	☐	☐	US 6611628	☐
21	Hakura, Ziyad S. et al.	☐	☐	☐	☐	☐	☐	☐	US 6593925	☐
22	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 6590998	☐
23	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 6590997	☐

	U	1	Document ID	Issue Date	Pages
24	☒	☐	US 6587821 B1	20030701	65
25	☒	☐	US 6587590 B1	20030701	70
26	☒	☐	US 6580828 B1	20030617	12
27	☒	☐	US 6580466 B2	20030617	
28	☒	☐	US 6577764 B2	20030610	
29	☒	☐	US 6573905 B1	20030603	
30	☒	☐	US 6573846 B1	20030603	
31	☒	☐	US 6571015 B1	20030527	
32	☒	☐	US 6567780 B2	20030520	
33	☒	☐	US 6567533 B1	20030520	
34	☒	☐	US 6560349 B1	20030506	
35	☒	☐	US 6553129 B1	20030422	
36	☒	☐	US 6553072 B1	20030422	

	Title	Current OR	Current XRef	Retrieval Classif
24	Methods for decoding watermark data from audio, and controlling audio devices in accordance therewith	704/270	380/252	
25	Method and system for computing 8.times.8 DCT/IDCT and a VLSI implementation	382/250	708/402	
26	Fast decoding	382/233	341/67; 382/246; 708/203	
27	Methods for generating image set or series with imperceptibly different images, systems therefor and applications thereof	348/700	348/173; 348/578	
28	Method for measuring and analyzing digital video quality	382/228	348/180; 375/240.27; 382/305	
29	Video and graphics system with parallel processing of graphics windows	345/629	345/501; 345/502; 345/505; 345/506; 345/519; 345/630; 348/597	
30	Method and apparatus for variable length decoding and encoding of video streams	341/67		
31	Method for compressing image information at high speed and method for transferring real-time moving images utilizing the same	382/232	382/235	
32	Audio with hidden in-band digital data	704/273	380/252	
33	Method and apparatus for discerning image distortion by reference to encoded marker signals	382/100		
34	Audio monitoring using steganographic information	382/100	725/18	
35	Computer system linked by using information in data objects	382/100		
36	System for encoding and decoding layered compressed video data	375/240.25		

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
24	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐	US 6587821	☐
25	Pan, Feng	☐	☐	☐	☐	☐	☐	☐	US 6587590	☐
26	Li, Wei	☐	☐	☐	☐	☐	☐	☐	US 6580828	☐
27	Siefken, Douglas R.	☐	☐	☐	☐	☐	☐	☐		☐
28	Myler, Harley R. et al.	☐	☐	☐	☐	☐	☐	☐		☐
29	MacInnis, Alexander G. et al.	☐	☐	☐	☐	☐	☐	☐		☐
30	Trivedi, Sushma Shrikant et al.	☐	☐	☐	☐	☐	☐	☐		☐
31	Matsuo, Katsunori et al.	☐	☐	☐	☐	☐	☐	☐		☐
32	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
33	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
34	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
35	Rhoads, Geoffrey	☐	☐	☐	☐	☐	☐	☐		☐
36	Chiang, Tihao et al.	☐	☐	☐	☐	☐	☐	☐		☐

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37	☒	☐	US 6538656 B1	20030325	
38	☒	☐	US 6519004 B1	20030211	
39	☒	☐	US 6496601 B1	20021217	
40	☒	☐	US 6496591 B1	20021217	
41	☒	☐	US 6493023 B1	20021210	
42	☒	☐	US 6473461 B1	20021029	
43	☒	☐	US 6466624 B1	20021015	
44	☒	☐	US 6445823 B1	20020903	
45	☒	☐	US 6438231 B1	20020820	
46	☒	☐	US 6430302 B2	20020806	
47	☒	☐	US 6424989 B1	20020723	
48	☒	☐	US 6421387 B1	20020716	
49	☒	☐	US 6418424 B1	20020709	
50	☒	☐	US 6418166 B1	20020709	

	Title	Current OR	Current XRef	Retrieval Classif
37	Video and graphics system with a data transport processor	345/519	345/555; 345/556; 345/567; 345/716; 348/14.13; 348/571; 370/471; 370/473	
38	Method for transmitting video information over a communication channel	348/385.1	370/468; 375/240.11	
39	System and method for asynchronous, adaptive moving picture compression, and decompression	382/239		
40	Video copy-control with plural embedded signals	382/100	386/94	
41	Method and apparatus for evaluating the visual quality of processed digital video sequences	348/180	348/184; 348/192; 348/438.1; 348/455; 382/162; 382/167; 382/254; 382/260; 382/272; 382/286	
42	Half-pixel motion estimation in motion video signal encoding	375/240.16		
43	Video decoder with bit stream based enhancements	375/240.27	375/240.12; 375/240.29	
44	Image compression	382/232		
45	Emulsion film media employing steganography	380/59	380/54	
46	Steganographically encoding a first image in accordance with a second image	382/100	382/284	
47	Object-oriented transaction computing system	709/201	718/102; 719/315	
48	Methods and systems for forward error correction based loss recovery for interactive video transmission	375/240.27	375/240.12	
49	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	706/21	434/178; 706/52	
50	Motion estimation and block matching pattern	375/240.12		

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
37	Cheung, Francis et al.	☐	☐	☐	☐	☐	☐	☐		☐
38	Bahl, Paramvir	☐	☐	☐	☐	☐	☐	☐		☐
39	Migdal, Alexander A. et al.	☐	☐	☐	☐	☐	☐	☐		☐
40	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
41	Watson, Andrew B.	☐	☐	☐	☐	☐	☐	☐		☐
42	Wang, Albert S.	☐	☐	☐	☐	☐	☐	☐		☐
43	Fogg, Chad Edward	☐	☐	☐	☐	☐	☐	☐		☐
44	Liang, Jie	☐	☐	☐	☐	☐	☐	☐		☐
45	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
46	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
47	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
48	Rhee, Injong	☐	☐	☐	☐	☐	☐	☐		☐
49	Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
50	Wu, Shou-jen Joseph et al.	☐	☐	☐	☐	☐	☐	☐		☐

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51	☒	☐	US 6414992 B1	20020702	
52	☒	☐	US 6411725 B1	20020625	
53	☒	☐	US 6408331 B1	20020618	
54	☒	☐	US 6404926 B1	20020611	
55	☒	☐	US 6404898 B1	20020611	
56	☒	☐	US 6400996 B1	20020604	
57	☒	☐	US 6400827 B1	20020604	
58	☒	☐	US 6381341 B1	20020430	
59	☒	☐	US 6381280 B1	20020430	
60	☒	☐	US 6369852 B1	20020409	
61	☒	☐	US 6363159 B1	20020326	
62	☒	☐	US 6349297 B1	20020219	

	Title	Current OR	Current XRef	Retrieval Classif
51	Optimal encoding of motion compensated video	375/240.13	375/240.02; 375/240.26; 375/240.29	
52	Watermark enabled video objects	382/100		
53	Computer linking methods using encoded graphics	709/217	380/28; 719/328	
54	Apparatus and method of processing image data, transmission medium, and recording medium	382/232	380/201; 380/54; 382/100; 705/57; 713/176	
55	Method and system for encoding image and audio content	382/100	380/287; 713/176	
56	Adaptive pattern recognition based control system and method	700/83	345/810; 345/840; 345/841; 370/218; 370/355; 700/17; 700/24; 700/25; 700/86; 700/87; 709/223; 709/227; 718/102; 719/318	
57	Methods for hiding in-band digital data in images and video	382/100	386/94	
58	Watermark encoding method exploiting biases inherent in original signal	382/100		
59	Single chip motion wavelet zero tree codec for image and video compression	375/240.19		
60	Analytical system for moving picture regeneration	348/192	348/553; 348/559	
61	Consumer audio appliance responsive to watermark data	382/100	380/252	
62	Information processing system for directing information request from a particular user/application, and searching/forwarding/retrieving information from unknown and large number of information resources	707/4	709/218; 719/320	

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
51	Sriram, Parthasarathy et al.	☐	☐	☐	☐	☐	☐	☐		☐
52	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
53	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
54	Miyahara, Nobuyoshi et al.	☐	☐	☐	☐	☐	☐	☐		☐
55	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
56	Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
57	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
58	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
59	Lynch, William C. et al.	☐	☐	☐	☐	☐	☐	☐		☐
60	Honda, Yoshizou	☐	☐	☐	☐	☐	☐	☐		☐
61	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
62	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐

	U	1	Document ID	Issue Date	Pages
63	☒	☐	US 6343138 B1	20020129	
64	☒	☐	US 6341350 B1	20020122	
65	☒	☐	US 6330335 B1	20011211	
66	☒	☐	US 6324573 B1	20011127	
67	☒	☐	US 6317885 B1	20011113	
68	☒	☐	US 6317459 B1	20011113	
69	☒	☐	US 6300976 B1	20011009	
70	☒	☐	US 6295546 B1	20010925	
71	☒	☐	US 6292589 B1	20010918	
72	☒	☐	US 6289297 B1	20010911	
73	☒	☐	US 6286036 B1	20010904	
74	☒	☐	US 6282242 B1	20010828	
75	☒	☐	US 6281942 B1	20010828	

	Title	Current OR	Current XRef	Retrieval Classif
63	Security documents with hidden digital data	382/100	283/901; 382/135	
64	Device and method for processing image data, transmitting medium, and recording medium	713/176	713/178; 713/179	
65	Audio steganography	380/252	380/253; 380/254; 713/176; 713/190	
66	Linking of computers using information steganographically embedded in data objects	709/217	345/749; 345/846; 380/28	
67	Interactive entertainment and information system using television set-top box	725/109	725/37	
68	Digital video signal encoder and encoding method	375/240.12	375/240.03; 375/240.04	
69	Digital image capturing device having an input/output interface through which the device is controlled	348/231.99	348/552; 358/906; 396/321	
70	Method and apparatus for eliminating the transpose buffer during a decomposed forward or inverse 2-dimensional discrete cosine transform through operand decomposition, storage and retrieval	708/402	708/401	
71	Method for choosing rate control parameters in motion-compensated transform-based picture coding scheme using non-parametric technique	382/239	348/416.1; 382/238; 382/250; 382/251	
72	Method for reconstructing a video frame received from a video source over a communication channel	703/2	348/466; 375/240.19; 375/240.27; 714/798	
73	Audio- and graphics-based linking to internet	709/217	380/201; 719/313	
74	Data compression device that switches between intra-frame coding and inter-frame coding	375/240.04	375/240.05; 375/240.06	
75	Spatial and temporal filtering mechanism for digital motion video signals	348/607	348/606; 348/620; 348/624	

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
63	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
64	Miyahara, Nobuyoshi et al.	☐	☐	☐	☐	☐	☐	☐		☐
65	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
66	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
67	Fries, Robert M.	☐	☐	☐	☐	☐	☐	☐		☐
68	Wang, Albert S.	☐	☐	☐	☐	☐	☐	☐		☐
69	Fukuoka, Hiroki	☐	☐	☐	☐	☐	☐	☐		☐
70	Adiletta, Matthew J.	☐	☐	☐	☐	☐	☐	☐		☐
71	Chow, King-Wai et al.	☐	☐	☐	☐	☐	☐	☐		☐
72	Bahl, Paramvir	☐	☐	☐	☐	☐	☐	☐		☐
73	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
74	Isozaki, Masaaki et al.	☐	☐	☐	☐	☐	☐	☐		☐
75	Wang, Albert S.	☐	☐	☐	☐	☐	☐	☐		☐

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76	☒	☐	US 6272253 B1	20010807	
77	☒	☐	US 6266430 B1	20010724	
78	☒	☐	US 6263468 B1	20010717	
79	☒	☐	US 6263108 B1	20010717	
80	☒	☐	US 6252905 B1	20010626	
81	☒	☐	US 6249545 B1	20010619	
82	☒	☐	US 6233590 B1	20010515	
83	☒	☐	US 6217234 B1	20010417	
84	☒	☐	US 6181693 B1	20010130	
85	☒	☐	US 6167155 A	20001226	
86	☒	☐	US 6167086 A	20001226	
87	☒	☐	US 6151598 A	20001121	

		Title	Current OR	Current XRef	Retrieval Classif
76		Content-based video compression	382/236	382/243	
77		Audio or video steganography	382/100		
78		Apparatus and method for partial buffering transmitted data to provide robust error recovery in a lossy transmission environment	714/774	714/701; 714/746	
79		Apparatus and method for recovery of lost/damaged data in a bitstream of data based on compatibility of adjacent blocks of data	382/232	382/233	
80		Real-time evaluation of compressed picture quality within a digital video encoder	375/240.14		
81		Video compression decompression and transmission	375/240.01	382/166	
82		Server apparatus for distributed communications supporting multiple user/application environment	715/500	715/530	
83		Apparatus and method for processing data with an arithmetic unit	709/247		
84		High speed video transmission over telephone lines	370/352	348/423.1; 370/389; 379/93.08; 379/93.15; 725/87	
85		Method of isomorphic singular manifold projection and still/video imagery compression	382/232	348/699; 348/700; 375/240.12; 382/236; 382/238	
86		Overhead data processor in a memory efficient image processing system	375/240.03	348/403.1; 348/404.1; 348/405.1	
87		Digital dictionary with a communication system for the creating, updating, editing, storing, maintaining, referencing, and managing the digital dictionary	707/3	707/100; 712/1; 712/200; 715/532	

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
76	Bannon, Thomas J. et al.	☐	☐	☐	☐	☐	☐	☐		☐
77	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
78	Kondo, Tetsujiro et al.	☐	☐	☐	☐	☐	☐	☐		☐
79	Kondo, Tetsujiro et al.	☐	☐	☐	☐	☐	☐	☐		☐
80	Pokrinchak, Stephen P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
81	Iga, Adam S.	☐	☐	☐	☐	☐	☐	☐		☐
82	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
83	Dewar, Kevin D. et al.	☐	☐	☐	☐	☐	☐	☐		☐
84	Maresca, Michael	☐	☐	☐	☐	☐	☐	☐		☐
85	Kostrzewski, Andrew et al.	☐	☐	☐	☐	☐	☐	☐		☐
86	Yu, Haoping et al.	☐	☐	☐	☐	☐	☐	☐		☐
87	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐

	U	1	Document ID	Issue Date	Pages
88	☒	☐	US 6139197 A	20001031	
89	☒	☐	US 6137837 A	20001024	
90	☒	☐	US 6125398 A	20000926	
91	☒	☐	US 6122403 A	20000919	
92	☒	☐	US 6119213 A	20000912	
93	☒	☐	US 6115420 A	20000905	
94	☒	☐	US 6115070 A	20000905	
95	☒	☐	US 6111954 A	20000829	
96	☒	☐	US 6108448 A	20000822	
97	☒	☐	US 6104757 A	20000815	
98	☒	☐	US 6104430 A	20000815	
99	☒	☐	US 6101276 A	20000808	

	Title	Current OR	Current XRef	Retrieval Classif
88	Method and system automatically forwarding snapshots created from a compressed digital video stream	709/217	725/105	
89	Motion estimation for digital video with reduced number of search window pixels	375/240.16	348/416.1; 348/699	
90	Communications subsystem for computer-based conferencing system using both ISDN B channels for transmission	709/236	370/263; 370/431	
91	Computer system linked by using information in data objects	382/233		
92	Method for addressing data having variable data width using a fixed number of bits for address and width defining fields	711/202	711/203; 711/212; 711/220	
93	Digital video signal encoder and encoding method	375/240.03	375/240.27	
94	System and method for DCT domain inverse motion compensation using shared information	375/240.12	375/240.18; 382/232	
95	Steganographic methods and media for photography	380/54	380/59	
96	System and method for extracting spatially reduced image sequences in a motion compensated compressed format	382/235	375/240.16; 382/250; 382/298	
97	System and method of error control for interactive low-bit rate video transmission	375/240.12	375/240.27; 714/18; 714/48	
98	Digital electronic still camera which receives an input/output control program through a detachable communication interface card	348/231.6	348/375; 348/552; 358/906; 396/321; 710/111	
99	Method and apparatus for performing two pass quality video compression through pipelining and buffer management	382/236		

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
88	Banks, Jerry J.	☐	☐	☐	☐	☐	☐	☐		☐
89	Nemiroff, Robert et al.	☐	☐	☐	☐	☐	☐	☐		☐
90	Mirashrafi, Mojtaba et al.	☐	☐	☐	☐	☐	☐	☐		☐
91	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
92	Robbins, William P.	☐	☐	☐	☐	☐	☐	☐		☐
93	Wang, Albert S.	☐	☐	☐	☐	☐	☐	☐		☐
94	Song, Junehwa et al.	☐	☐	☐	☐	☐	☐	☐		☐
95	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
96	Song, Junehwa et al.	☐	☐	☐	☐	☐	☐	☐		☐
97	Rhee, Injong	☐	☐	☐	☐	☐	☐	☐		☐
98	Fukuoka, Hiroki	☐	☐	☐	☐	☐	☐	☐		☐
99	Adiletta, Matthew James et al.	☐	☐	☐	☐	☐	☐	☐		☐

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100	☒	☐	US 6091777 A	20000718	
101	☒	☐	US 6081750 A	20000627	
102	☒	☐	US 6067322 A	20000523	
103	☒	☐	US 6064776 A	20000516	
104	☒	☐	US 6064771 A	20000516	
105	☒	☐	US 6057882 A	20000502	
106	☒	☐	US 6052706 A	20000418	
107	☒	☐	US 6026217 A	20000215	
108	☒	☐	US 6026193 A	20000215	
109	☒	☐	US 6026183 A	20000215	
110	☒	☐	US 5995727 A	19991130	
111	☒	☐	US 5995670 A	19991130	
112	☒	☐	US 5995080 A	19991130	
113	☒	☐	US 5984512 A	19991116	
114	☒	☐	US 5983004 A	19991109	

	Title	Current OR	Current XRef	Retrieval Classif
100	Continuously adaptive digital video compression system and method for a web streamer	375/240.11	375/240.03; 375/240.19; 382/242	
101	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	700/17	345/520; 700/11; 700/56; 700/83; 700/86	
102	Half pixel motion estimation in motion video signal encoding	375/240.17		
103	Image processing apparatus	382/260	375/240.29; 382/261; 382/266	
104	System and method for asynchronous, adaptive moving picture compression, and decompression	382/232		
105	Testing architecture for digital video transmission system	348/192	348/181	
106	Apparatus for performing fast multiplication	708/631	708/632	
107	Method and apparatus for eliminating the transpose buffer during a decomposed forward or inverse 2-dimensional discrete cosine transform through operand decomposition storage and retrieval	709/247	710/1; 710/29; 710/52; 710/58; 712/220	
108	Video steganography	382/232	348/473; 380/202	
109	Content-based video compression	382/194	382/180; 382/237	
110	Video decompression	709/247		
111	Simplified chain encoding	382/242		
112	Method and apparatus for interleaving and de-interleaving YUV pixel data	345/603	345/530; 345/555; 707/101; 711/157	
113	Method for storing video information	709/219	345/716	
114	Computer, memory, telephone, communications, and transportation system and methods	709/227		

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
100	Guetz, William N. et al.	☐	☐	☐	☐	☐	☐	☐		☐
101	Hoffberg, Steven Mark et al.	☐	☐	☐	☐	☐	☐	☐		☐
102	Wang, Albert S.	☐	☐	☐	☐	☐	☐	☐		☐
103	Kikuchi, Yoshihiro et al.	☐	☐	☐	☐	☐	☐	☐		☐
104	Migdal, Alexander A. et al.	☐	☐	☐	☐	☐	☐	☐		☐
105	van den Branden Lambrecht, Christian J. et al.	☐	☐	☐	☐	☐	☐	☐		☐
106	Wheeler, William R. et al.	☐	☐	☐	☐	☐	☐	☐		☐
107	Adiletta, Matthew J.	☐	☐	☐	☐	☐	☐	☐		☐
108	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
109	Talluri, Rajendra K. et al.	☐	☐	☐	☐	☐	☐	☐		☐
110	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
111	Zabinsky, Steven Ira	☐	☐	☐	☐	☐	☐	☐		☐
112	Biro, Larry Louis et al.	☐	☐	☐	☐	☐	☐	☐		☐
113	Jones, Anthony Mark et al.	☐	☐	☐	☐	☐	☐	☐		☐
114	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐

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115	☒	☐	US 5978029 A	19991102	
116	☒	☐	US 5963154 A	19991005	
117	☒	☐	US 5920477 A	19990706	
118	☒	☐	US 5920317 A	19990706	
119	☒	☐	US 5903454 A	19990511	
120	☒	☐	US 5901246 A	19990504	
121	☒	☐	US 5896176 A	19990420	
122	☒	☐	US 5886736 A	19990323	
123	☒	☐	US 5878273 A	19990302	
124	☒	☐	US 5875108 A	19990223	
125	☒	☐	US 5867712 A	19990202	
126	☒	☐	US 5867386 A	19990202	

	Title	Current OR	Current XRef	Retrieval Classif
115	Real-time encoding of video sequence employing two encoders and statistical analysis	375/240.14		
116	Technique for decoding variable and fixed length codes	341/67		
117	Human factored interface incorporating adaptive pattern recognition based controller apparatus	382/181	382/190; 700/83	
118	System and method for storing and displaying ultrasound images	345/853	345/835; 600/407; 705/3; 715/500.1; 715/512	
119	Human-factored interface corporating adaptive pattern recognition based controller apparatus	700/83	382/155; 700/45; 700/86	
120	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	382/209		
121	Content-based video compression	375/240.15	375/240.23; 375/240.27; 714/756; 714/822; 714/824	
122	Synchronization of a stereoscopic video sequence	348/43	348/42; 375/240.1; 375/240.28	
123	System for microprogrammable state machine in video parser disabling portion of processing stages responsive to sequence.sub.-- end token generating by token generator responsive to received data	710/5	712/220	
124	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	700/17	382/181; 382/190; 700/83	
125	Single chip integrated circuit system architecture for document instruction set computing	717/127	717/140	
126	Morphological pattern recognition based controller system	700/83	382/190; 382/203; 382/209	

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
115	Boice, Charles E. et al.	☐	☐	☐	☐	☐	☐	☐		☐
116	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
117	Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
118	McDonald, Omid	☐	☐	☐	☐	☐	☐	☐		☐
119	Hoffberg, Linda Irene et al.	☐	☐	☐	☐	☐	☐	☐		☐
120	Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
121	Das, Arnab et al.	☐	☐	☐	☐	☐	☐	☐		☐
122	Chen, Xuemin	☐	☐	☐	☐	☐	☐	☐		☐
123	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
124	Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
125	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
126	Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐		☐

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127	☒	☐	US 5862260 A	19990119	
128	☒	☐	US 5850481 A	19981215	
129	☒	☐	US 5841978 A	19981124	
130	☒	☐	US 5835792 A	19981110	
131	☒	☐	US 5832289 A	19981103	
132	☒	☐	US 5832119 A	19981103	
133	☒	☐	US 5829007 A	19981027	
134	☒	☐	US 5828907 A	19981027	
135	☒	☐	US 5825680 A	19981020	
136	☒	☐	US 5822436 A	19981013	
137	☒	☐	US 5821885 A	19981013	
138	☒	☐	US 5812195 A	19980922	
139	☒	☐	US 5806068 A	19980908	
140	☒	☐	US 5801973 A	19980901	
141	☒	☐	US 5798719 A	19980825	

	Title	Current OR	Current XRef	Retrieval Classif
127	Methods for surveying dissemination of proprietary empirical data	382/232		
128	Steganographic system	382/232	382/181	
129	Network linking method using steganographically embedded data objects	709/217	101/483; 345/760; 380/28; 713/162; 713/176; 713/201	
130	Token-based adaptive video processing arrangement	710/68	345/506; 712/36	
131	System for estimating worst time duration required to execute procedure calls and looking ahead/preparing for the next stack operation of the forthcoming procedure calls	712/30	709/201; 709/203; 718/102	
132	Methods for controlling systems using control signals embedded in empirical data	382/232	382/191; 713/176	
133	Technique for implementing a swing buffer in a memory array	711/5	345/567; 345/571; 365/189.04; 365/230.04; 365/230.05; 711/104; 711/168	
134	Token-based adaptive video processing arrangement	710/68	345/506; 712/36	
135	Method and apparatus for performing fast division	708/650	708/521	
136	Photographic products and methods employing embedded information	380/54	380/59; 382/306; 428/204; 713/176	
137	Video decompression	341/67		
138	Video compression using an iterative correction data coding method and systems	375/240.16	375/240.24	
139	Document data processor for an object-oriented knowledge management system containing a personal database in communication with a packet processor	707/103R	707/5	
140	Video decompression	708/203		
141	Parallel Huffman decoder	341/67	341/65; 704/200.1	

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
127	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
128	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
129	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
130	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
131	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
132	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
133	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
134	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
135	Wheeler, William R. et al.	☐	☐	☐	☐	☐	☐	☐		☐
136	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
137	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
138	Zhang, Tai Y.	☐	☐	☐	☐	☐	☐	☐		☐
139	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
140	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
141	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐

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142	☒	☐	US 5796434 A	19980818	
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144	☒	☐	US 5768629 A	19980616	
145	☒	☐	US 5754766 A	19980519	
146	☒	☐	US 5754227 A	19980519	
147	☒	☐	US 5748789 A	19980505	
148	☒	☐	US 5748783 A	19980505	
149	☒	☐	US 5748763 A	19980505	
150	☒	☐	US 5745758 A	19980428	
151	☒	☐	US 5740460 A	19980414	
152	☒	☐	US 5734754 A	19980331	11

	Title	Current OR	Current XRef	Retrieval Classif
142	System and method for performing motion estimation in the DCT domain with improved efficiency	348/403.1	348/699; 375/240.02; 375/240.14; 375/240.15; 375/240.16	
143	Human factored interface incorporating adaptive pattern recognition based controller apparatus	713/600	348/110; 348/27; 348/734; 712/240; 712/245	
144	Token-based adaptive video processing arrangement	710/68	345/506; 712/36	
145	Integrated circuit system for direct document execution	709/200	712/1; 715/500; 715/526	
146	Digital electronic camera having an external input/output interface through which the camera is monitored and controlled	348/231.6	348/373; 348/552	
147	Transparent block skipping in object-based video coding systems	382/243	382/239	
148	Method and apparatus for robust information coding	382/232	283/113; 283/77; 283/901; 380/241; 380/51; 380/55; 713/176	
149	Image steganography system featuring perceptually adaptive and globally scalable signal embedding	382/115	348/460; 380/200; 380/241; 382/232; 382/276; 713/176	
150	System for regulating multicomputer data transfer by allocating time slot to designated processing task according to communication bandwidth capabilities and modifying time slots when bandwidth change	718/102	709/201; 709/224; 709/242; 710/60; 712/42	
151	Arrangement for processing packetized data	348/473		
152	System for model-based compression of speckle images	382/243	382/279	

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142	Lempel, Mody	☐	☐	☐	☐	☐	☐	☐		☐
143	Hoffberg, Steven M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
144	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
145	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
146	Fukuoka, Hiroki	☐	☐	☐	☐	☐	☐	☐		☐
147	Lee, Ming-Chieh et al.	☐	☐	☐	☐	☐	☐	☐		☐
148	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
149	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
150	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
151	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
152	Parker, Kevin J.	☐	☐	☐	☐	☐	☐	☐	US 5734754	☐

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153	☒	☐	US 5710834 A	19980120	
154	☒	☐	US 5703793 A	19971230	
155	☒	☐	US 5661822 A	19970826	
156	☒	☐	US 5636292 A	19970603	
157	☒	☐	US 5629780 A	19970513	
158	☒	☐	US 5610657 A	19970311	
159	☒	☐	US 5600844 A	19970204	
160	☒	☐	US 5506954 A	19960409	
161	☒	☐	US 5490247 A	19960206	
162	☒	☐	US 5457780 A	19951010	

	Title	Current OR	Current XRef	Retrieval Classif
153	Method and apparatus responsive to a code signal conveyed through a graphic image	382/232	380/202; 380/243; 380/55; 382/244; 382/248; 434/315; 434/316	
154	Video decompression	382/232	708/203	
155	Data compression and decompression	382/233		
156	Steganography methods employing embedded calibration data	382/232	235/382; 235/494; 358/1.9; 358/434; 382/115; 382/254	
157	Image data compression having minimum perceptual error	382/250	358/539; 382/166; 382/232; 382/251	
158	Video compression using an iterative error data coding method	375/240.16		
159	Single chip integrated circuit system architecture for document installation set computing	715/500	348/441; 375/240.15; 375/240.16	
160	PC-based conferencing system	345/501	348/14.08; 348/14.13; 370/260; 379/202.01; 709/204	
161	Video subsystem for computer-based conferencing system	345/501	709/204	
162	System for producing a video-instruction set utilizing a real-time frame differential bit map and microblock subimages	345/502	345/501; 345/522; 345/555; 375/240.15; 375/240.16; 375/240.25; 382/305	

	Inventor	S	C	P	2	3	4	5	Image Doc. Displayed	PT
153	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
154	Wise, Adrian P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
155	Knowles, Gregory P. et al.	☐	☐	☐	☐	☐	☐	☐		☐
156	Rhoads, Geoffrey B.	☐	☐	☐	☐	☐	☐	☐		☐
157	Watson, Andrew B.	☐	☐	☐	☐	☐	☐	☐		☐
158	Zhang, Tai Y.	☐	☐	☐	☐	☐	☐	☐		☐
159	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐
160	Arshi, Taymoor et al.	☐	☐	☐	☐	☐	☐	☐		☐
161	Tung, Peter et al.	☐	☐	☐	☐	☐	☐	☐		☐
162	Shaw, Venson M. et al.	☐	☐	☐	☐	☐	☐	☐		☐